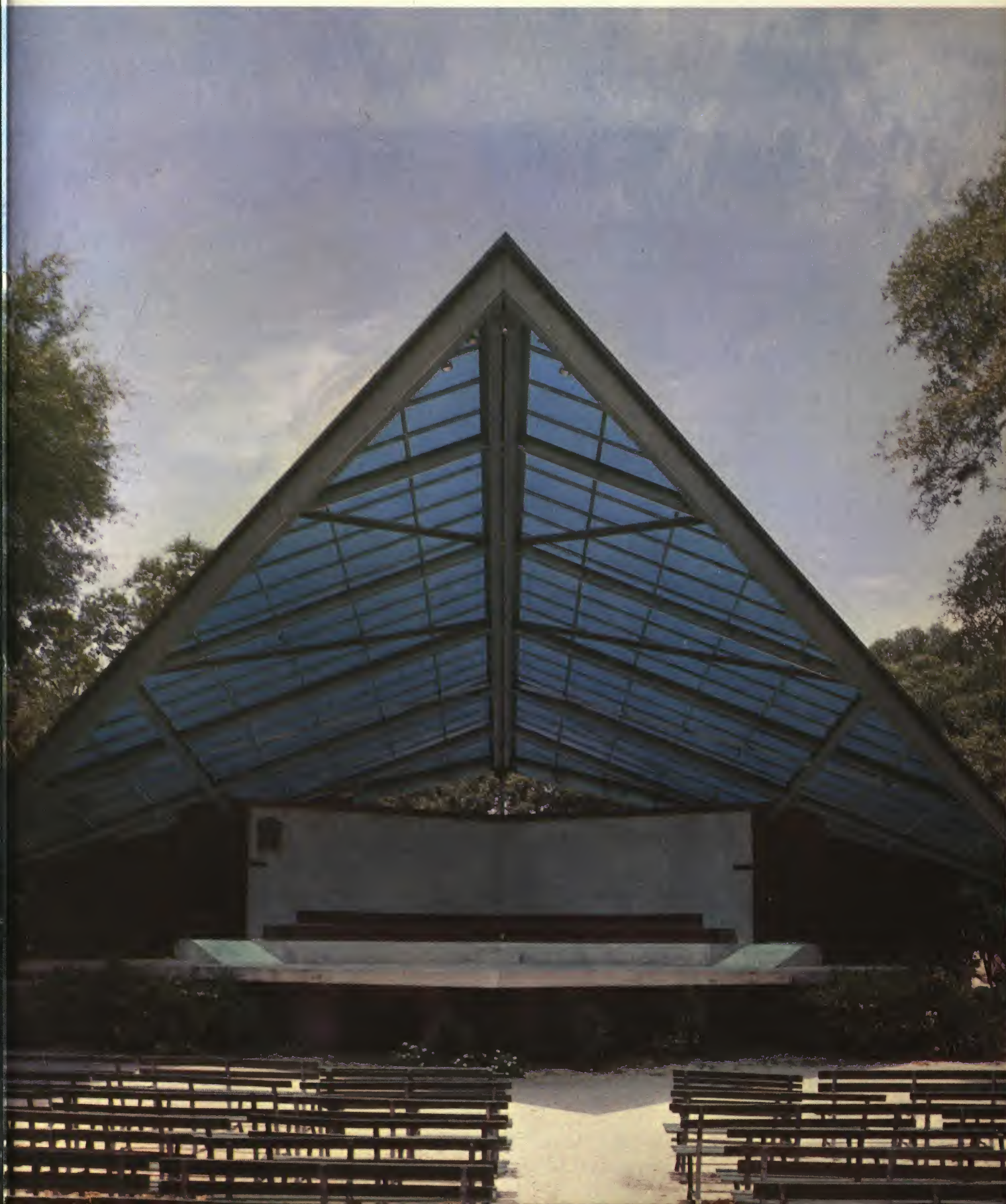


AMERICAN-SAINT GOBAIN CORPORATION

GLASS PRODUCTS



AMERICAN—SAINT GOBAIN

The American-Saint Gobain Corporation was formed early in 1958 by the merger of the American Window Glass Company of Pittsburgh, Pa., and the Blue Ridge Glass Corporation of Kingsport, Tennessee. The latter was a wholly owned subsidiary of Saint Gobain of Paris, France. By this merger was combined a group of glass makers whose long history of flat glass making is unequalled in the world.

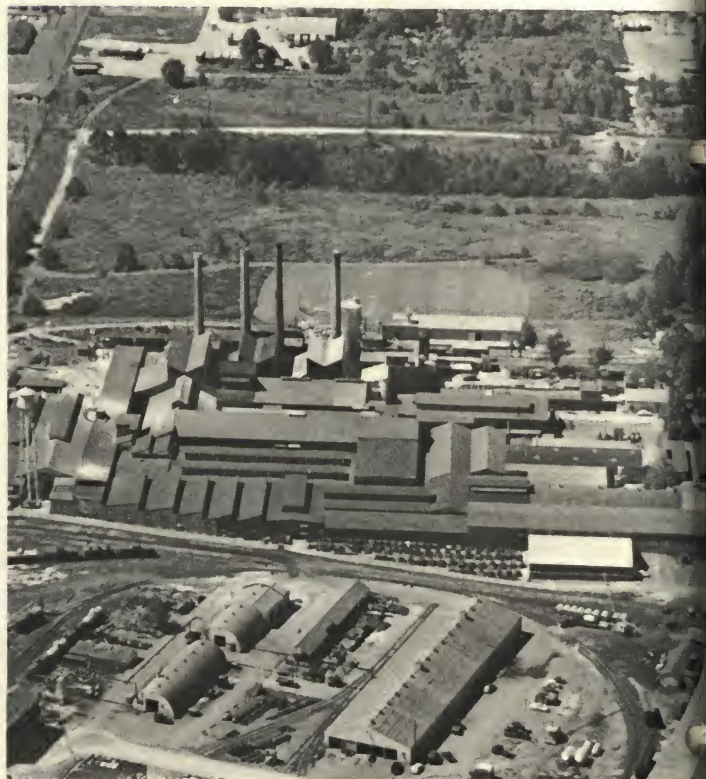
With plants in Arnold, Jeannette, and Ellwood City, Pennsylvania, and Okmulgee, Oklahoma, the American Window Glass Company was founded in July, 1899, as a consolidation of approximately twenty small manufacturers, which produced at that time a majority of the sheet glass in the United States. In its program continually to improve the quality of its products, AMERICAN has led in the introduction of new production methods . . . as far back as 1903 it was the first producer in history to manufacture sheet glass by a machine process. It has also introduced many new products to its line, such as LUSTRAGRAY tinted glass for glare reduction, and SUPRATEST laminated safety glass.

The Blue Ridge Glass Corporation, with its plant in Kingsport, was founded in 1925 by Corning Glass Works of United States, Saint Gobain of France, and Saint Roch of Belgium. In 1954 Saint Gobain assumed complete ownership. The founding principals of Blue Ridge brought into that company over 500 years' experience in glass making and technical glass knowledge. Blue Ridge brings to American-Saint Gobain a variegated line of rolled glass products as diverse as the creative demands of the architect.

One reason for the unification of these interests into the American-Saint Gobain Corporation was to make available, from one source, a complete line of flat glass products in the United States . . . for the architect, engineer, and designer, as planners and specifiers . . . for the glass jobber and dealer, as suppliers to the trade . . . and for the public, as ultimate consumer.



Sheet Glass Plant, Arnold, Pa.



Patterned Glass Plant, Kingsport, Tenn.

Patterned Glasses

Patterned glasses are available in a wide variety of types, patterns and finishes. Type is selected according to the desired use; heat absorbing, strength, etc. Pattern and finish are determined according to the desired effect or light obscurity. All answer the specific decorative and functional requirements of the architect, designer, or contractor.

section

1

Sheet Glasses

American-Saint Gobain sheet glasses are available in four different types. Each is especially designed and engineered to meet the varying requirements in all types of general construction glazing—from clear window glasses for most residential or commercial uses; to grey or colored glasses for glare control; to laminated glasses where extreme safety is a factor.

2

Glass Doors

Two styles are available for either single or double installations. Each may be obtained centre or offset hung, pivoted or conventionally hinged, with a variety of hardware, closing and locking devices. Securit, available as a special process with most American-Saint Gobain glasses, is a feature of all glass doors because of the need for additional strength and shock resistance.

3

Spandrel Glasses

Huetex was especially designed as a spandrel glass. It is 5/16" thick Securit Patterned Glass on the back of which has been permanently bonded a ceramic color and over that a thin aluminum coating. Available in twelve standard colors, or in special colors, the resultant spandrel is both striking in appearance as well as functional.

4

Special Glasses
and Products

Special uses for flat glass especially as components of other products, such as: bulb edge glass for shelving and counter-top dividers, Feurex, a low expansion borosilicate glass, or Lustrawhite and thin glass for picture framing and microscope slides respectively, etc.

5

Plate Glasses

Plate glass, mechanically ground and polished to a fine optically true surface, is visually the highest quality flat glass. Used for display windows, mirrors, and large openings, clear or colored.

6



PATTERNED

architects' and designers' glass

Blue Ridge patterned glass (sometimes called rolled, obscure, rough, or translucent glass) by American-Saint Gobain, is used for industrial, commercial, or domestic glazing, where light is to be transmitted without sacrifice of privacy.

Blue Ridge® Patterned glass is semi-transparent, with distinctive geometric or over-all designs on one or both surfaces. The glass diffuses transmitted light and affords varying degrees of obscurity for the many requirements of decorative or functional uses. Patterned glass comes in many forms and finishes, including standard, with natural finish, heat absorbing or heat resisting, white translucent, annealed or tempered, and wired (patterned or polished surface) for safety and for use as a fire retardant. It is often cut to special shapes or bent into special configurations, for use in special applications such as lighting fixtures.

The recent trend in architecture to curtain-wall construction finds many uses for Blue Ridge wired glasses, as well as for the specially coated and finished HUETEX . . . a spandrel glass which insulates, lends color, and gives permanence to modern architectural structures. At the same time, patterned glasses give the architect and decorator unlimited creative possibilities in the use of patterned glass in interior walls and partitions. Blue Ridge Patterned glasses are variously used as components for many manufactured articles of importance to the architect and designer such as home appliances, lighting fixtures and furniture.

On the pages immediately following are listed and shown some of the Blue Ridge Patterned glass products. For further information call your local flat glass jobber or our nearest office listed on the back of this bulletin . . . or write to us.

For short form specifications see back cover.

how to select and specify

types

PLAIN ROLLED

Clear surfaces with patterns formed into one or both sides as it comes from the rolling machines or with surface finishes. Used for most decorative and functional applications.

HUETEX®

A special glass consisting of 5/16" Securit patterned glass with a ceramic color bonded to the back and backed with aluminum. Used for paneling, wainscoting, or facing.

AKLO *

A blue-green heat absorbing and glare reducing glass. Used where glare, material spoilage, air conditioning costs, etc. are a factor.

The first consideration in the selection of a patterned glass is its intended use, e.g., heat absorbing, strength, etc. One of the six basic types described below may be chosen. Pattern, the second consideration, depends upon design and use also, for some patterns are more obscure than others. Reference may be made to the list of patterns available for a particular type on pages 10-12 where all patterns are illustrated and described. Finally, the selected pattern may be made more obscure or changed in appearance by the specification of one of the three finishes described below. Designed Satinol, one of these finishes, is also available as illustrated on page 13.

Some architects or designers may wish to select pattern first. This may be done by selecting a pattern on pages 10 to 12, and then, according to the reference found under each, by referring back to the information about types.

patterns

finishes

HUEWHITE®

A light diffusing and glare reducing glass, where heat absorption is not a main consideration. Used for decorative purposes, or in schools, offices, museums, etc.

SECURIT®

A heat-tempered glass for added strength. Used for doors, partitions, shower enclosures, or areas where hard, rough usage is likely.

WIRED

Approved fire retardant glass for schools, public buildings, other areas where safety is a factor. Also effective as a decorative glass.

Blue Ridge patterned glass by American-Saint Gobain is semi-transparent, with distinctive geometric or linear designs on one or both surfaces. The glass diffuses transmitted light, and affords varying degrees of obscurity, for the many requirements of decorative or functional uses. For your selection, the wide variety of available patterns is illustrated on pages 10 through 12.

Satinol finish — treatment of one or both surfaces provides a soft satin-like appearance, decreases light transmission approximately 3% one side or 6% two sides, and spreads transmitted light uniformly. Does not finger mark or collect dust and dirt.

Reduces resistance to impact or mechanical stress. This must be considered in determining size and use.

Frosted finish — acid etching of one or both surfaces improves distribution of transmitted light, reduces glare, — and decreases light transmission 15—20%. Not recommended for partitions or decorative use.

Sandblasted finish — increases obscurity and diffusion, but is hard to clean and very fragile. Reduces light transmission by 20-30% if applied to both surfaces.



STANDARD

plain rolled glass

Generally speaking, standard patterned glass here is to be construed as regular plain rolled glass as it comes from the rolling machines, with no additional treatment except possibly a surface Satinol or frosting. The glass has distinctive designs or patterns formed into one or both surfaces at the time the glass is produced. The resulting polish that occurs on both surfaces of the glass from this roll forming operation is known as "fire polish".

The surface patterns give the glass a semi-transparent appearance and thus afford varying degrees of translucency . . . from practically clear to almost totally obscure. By choice of patterns differing degrees of diffusion as well as obscurity may be obtained, giving the designer great freedom in choosing among the most desired characteristics. Greater obscurity, or privacy, may be achieved by further treating the fire-polished surface to produce a Satinol, frosted, or sandblasted surface.

Standard patterned glass meets the many requirements for a decorative or functional material with enduring beauty. The wide variety of patterns and surface finishes available provides effective solutions for the glazing problems of the architect, designer, builder and contractor.

DESIGNED SATINOL®

Some standard patterned glasses may be further enhanced by the additional surface treatment of Designed Satinol. On lighter glass patterns the Designed Satinol becomes the major decorative motif. On others the patterns and designs complement each other. See page 13.



Reception Lobby, Electric Controller & Mfg. Div. of Square D Company, Cleveland, Ohio.
Architects: A. E. Rowe & Associates.



Reception Lobby, Bert Mills, Inc., St. Charles, Ill.
Architects: Burgess, Stevens & Purdy, Chicago.



Offices, Federated Department Stores, Inc., Cincinnati, Ohio.
Architects: Potter, Tyler, Martin & Roth. Designers: Raymond Loewy Associates

pattern	thick- ness inches	wt./lbs. per sq. ft.	light trans. %	finish and maximum size manufactured●		
				standard	satinox ▲	frosted ▲
Beadex	7/32	2-3/4	90.0	60 x 136	60 x 136 ¹	
Beadex, Matte	7/32	2-3/4	82.0	60 x 136	60 x 136 ¹	
Corrugated	1" overall			47½ x 144	47½ x 144 ¹	
Diffusex	1/8 7/32	1-3/4 2-3/4	87.6 87.6	60 x 132 60 x 136	60 x 136	
Doubltex	7/32	2-3/4	87.0	60 x 136	60 x 136 ¹	
Finetex	1/8	1-3/4	89.0	60 x 132		48 x 132
Floretex	1/8	1-3/4	86.2	48 x 132		
Flutex	7/32	2-3/4	89.0	60 x 136	60 x 136	
Flutex, textured	7/32	2-3/4	87.2	60 x 136	60 x 136	
Hammered	1/8	1-3/4	90.0	60 x 132		48 x 132
	7/32	2-3/4	90.0	60 x 136	60 x 136	48 x 136
	3/8	5	90.0	60 x 100	60 x 100	48 x 100
Industrex	1/8	1-3/4	88.2	60 x 132		48 x 132
	7/32	2-3/4	88.2	60 x 136	60 x 136	48 x 136
Linex	1/8	1-3/4	80.0	60 x 132		48 x 132
	7/32	2-3/4	80.0	60 x 136	60 x 136 ¹	48 x 136
Linex, textured	1/8	1-3/4	78.5	60 x 132		
	7/32	2-3/4	78.5	60 x 136	60 x 136 ¹	
Louvrex	7/32	2-3/4	90.4	60 x 136	60 x 136	
Luminex	1/8	1-3/4	88.4	60 x 132		48 x 132 ²
	7/32	2-3/4	88.4	60 x 136	60 x 136	48 x 136 ²
Muralex	1/8	1-3/4	86.0	60 x 132		
	7/32	2-3/4	86.0	60 x 136	60 x 136	
	3/8	5	86.0	60 x 100	60 x 100	
Pebblex	1/8	1-3/4	79.7	60 x 132		
	7/32	2-3/4	79.7	60 x 136	60 x 136 ¹	
Pointex	1/8 (thin)	1-1/2	92.5	60 x 120		48 x 120 ²
Randex	7/32	2-3/4	82.0	60 x 136	60 x 136 ¹	
Reglex	1/8	1-3/4	52.3	60 x 132		
	7/32	2-3/4	52.3	60 x 136	60 x 136 ¹	
Ribbed	1/8	1-3/4	84.4	60 x 132		48 x 132
	7/32	2-3/4	84.4	60 x 136	60 x 136	48 x 136
	3/8	5	84.4	60 x 100	60 x 100	48 x 100
Skytex	1/8	1-3/4	78.9	48 x 132		44 x 132 ¹
	7/32	2-3/4	78.9	48 x 136	48 x 136 ¹	44 x 132 ²
Tobex, wired	1/4	4	82.0	48 x 144		
Velvex	1/8	1-3/4	89.0	60 x 132		48 x 132 ²
	7/32	2-3/4	89.0	60 x 136	60 x 136	48 x 136 ²

▲ Available in one or two sides unless indicated as follows:

¹ One side only [Satinol on smooth side, frosted on patterned side].

² Two sides only.

● Type of installation and service expected will determine light size—technical information available.

HUETEX®

tempered facing glass

A low-maintenance, high-quality spandrel material of striking beauty plus insulating value. Huetex is tempered glass used as interior paneling, wainscoting or facing material. Huetex is also used as a spandrel glass in curtain walls (see pages 18 and 19 for detailed information).

colors: Huetex is available in 12 standard colors. Special colors can be matched, within the range of ceramic enamel manufacturers' limits.

pattern: Finetex pattern is essentially nondirectional. However, for most uniform appearance, all sizes should be ordered for width or height dimension in the same direction.

dimensional data: Thickness — 5/16" (.295 to .330).

Maximum size and pattern direction—60" perpendicular to, and 96" parallel to direction of rolling.

Exact dimensions are required on orders because Huetex cannot be cut or ground after manufacture.

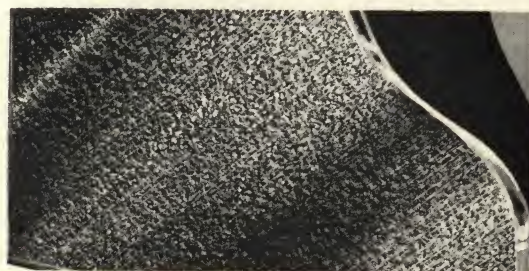
framing and glazing: Members must be of sturdy construction and rigid enough to provide uniform support to panel perimeters, and to prevent transmittal of structural loads or stresses to the glass. Design must provide for: adequate expansion joints; means of adjustment during installation; glazing channels; individual panel removal; and weep holes for condensation.

Panels must be glazed with resilient or nonhardening elastic material to provide an adequate cushion between panels and channel walls. Panels should rest upon accepted setting blocks with clearance between all other edges and frames.

TEMPERED GLASS | 5/16" thick, is textured on the weathering side to subdue bright reflections.

CERAMIC ENAMEL | fused to the glass adds permanent beauty in the color desired.

ALUMINUM | welded to the back surface by our exclusive Huetex process, protects the enamel, reflects heat, insulates.



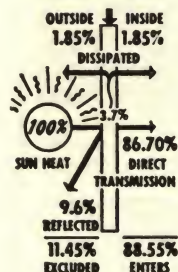
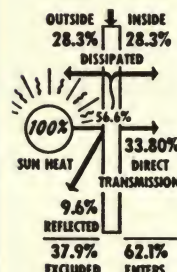
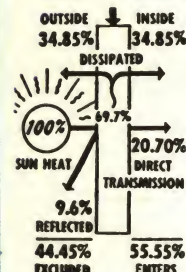
AKLO

heat absorbing glass

AKLO is a blue-green heat absorbing and glare reducing glass. It absorbs most of the sun's heat, admits an adequate amount of daylight, yet substantially reduces glare and eyestrain. Maximum daylight transmission is in that portion of the spectrum most restful to the eyes—blue, green and yellow.

minimum expansion: Any heat-absorbing glass becomes much hotter than ordinary glass. Sudden cooling by rain or hail may cause breakage, unless the glass is of low expansion. AKLO has this all-important property of resisting thermal shock, 25% greater than regular diffusing patterned or wired glass. Result is lower maintenance costs.

solar heat reduction: By its special composition, AKLO Glass absorbs the heat-loaded rays of the sun. This heat is dissipated, much of it externally, so that incoming solar heat is substantially reduced. Result is a cooler interior—more comfort, less material spoilage, lower air-conditioning costs.

ORDINARY
1/8" GLASSAKLO
1/8" GLASSAKLO
1/4" GLASS

pattern	type	thick- ness, inches	light trans. %	shipping wt./lbs. per sq. ft.	finish and maximum size manufactured ●		type	total heat of sun through glass			
					standard	frosted ▲		radiated by glass	transmitted through glass	total heat through glass	ratio of heat through glass to light transmission
Hammered	wired	1/4	48.5	3 1/2	48 x 144	44 x 136 (1) 48 x 144 (2)	Hammered pattern				
							1/8" AKLO—unwired	28.30%	33.80%	62.10%	1:1.87
							1/8" ordinary—unwired	1.85	86.70	88.55	1:1.03
							1/8" Frosted AKLO—unwired	34.00	23.00	57.00	1:1.87
	not wired	1/8	65.5	1 3/4	48 x 132	44 x 120 (1) 48 x 132 (2)	1/4" AKLO—unwired	34.85	20.70	55.55	1:2.58
							7/32" ordinary—unwired	3.70	83.00	86.70	1:1.07
		1/4	54.5	3		44 x 132 (1) 48 x 136 (2)	1/4" AKLO wired	35.70	19.00	54.70	1:2.57
							1/4" ordinary—wired	5.60	79.20	84.80	1:1.07
Finetex	wired	1/4	48.5	3 1/2	48 x 144	44 x 136 (1) 48 x 144 (2)	1/4" Frosted AKLO	38.70	13.60	52.30	1:2.58
	not wired	1/8	65.5	1 3/4	48 x 132	44 x 120 (1) 48 x 132 (2)	Polished (for comparison)				
							1/8" AKLO	27.00	38.00	65.00	1:1.87
							1/8" ordinary	1.85	88.30	90.15	1:1.03
		1/4	54.5	3		44 x 132 (1) 48 x 136 (2)	1/4" AKLO	35.50	21.00	56.50	1:2.57
Skytex	wired	1/4	37.5	3 1/2	48 x 60	44 x 136 (1) 48 x 144 (2)	1/4" ordinary	3.75	84.50	88.25	1:1.07
Polished	wired	1/4	54.2	3 1/2	48 x 60						

▲ (1) one side only on smooth side.

(2) two sides only.

● Type of installation and service expected will determine light size—technical information available.



Bloom Township High School Field House, Chicago Heights.
Architects: Schmidt, Garden & Dickson—Chicago.

design considerations

It is generally known that any type of glass will eventually rupture when heat is applied directly to one portion while the other portion of the same light of glass remains cool. These conditions may exist in the use of AKLO. It is possible for sections of a light of AKLO exposed to the sun to become as hot as 150° to 160°F. whereas the shaded portions of the glass may remain near the temperature of the air. Where such conditions exist, that is, where a small portion of a light of AKLO is shaded by overhang, pilasters, etc., and the remainder of the glass is exposed to the sun, the size of the glass used may be of critical importance. AKLO Glass subjected to such adverse conditions will function properly when the sizes are limited. Sizes can be increased by using special glazing precautions.

For complete design data and installation details, write for AKLO technical bulletin A-1-57.

glazing recommendations

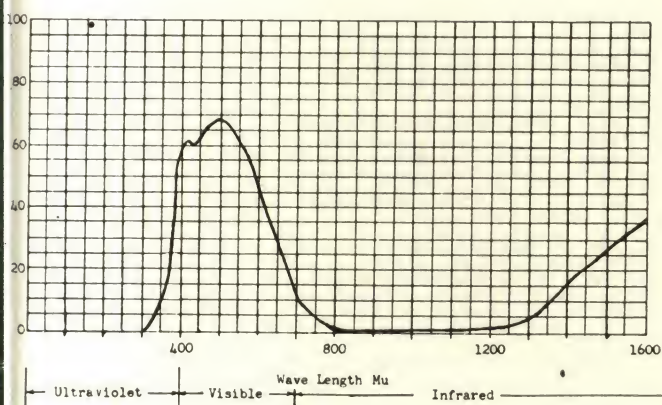
Failure to adhere to recommended glazing practices definitely affects the functioning of heat-absorbing glass, and these basic recommendations should be followed:

- A. Allow minimum clearance of $\frac{1}{8}$ " between the edge of glass and framing members at all points.
- B. Handle glass carefully to avoid striking its edges against the frame, etc., which could cause checks, runs, or chips. Also make sure that all edges are clean cut. Nipping edges should never be permitted as it may create checks or chips which may later lead to thermal breakage.
- C. Make sure that no mechanical strain is put on the glass by out-of-square framing, out-of-plumb framing, or improper placing of glazing clips. Lead or pressure treated hardwood setting blocks should always be used except for small steel sash sizes.
- D. Use a permanently elastic glazing compound. Do not dilute the glazing compound against the manufacturer's recommendation. Glazing compounds that set up hard hold the glass too rigidly and will not allow for expansion and contraction.

E. In skylights and where glazing stops are used, make sure that there is enough compound to provide a resilient setting and to prevent metal-to-glass contact.

By closely adhering to these recommendations, the glass is, in effect, floating in the frame.

spectrophotometric chart



HUEWHITE®**glare-reducing glass**

Huewhite is not a heat-absorbing glass. It was developed for use where light diffusion with maximum glare reduction and true color transmission are desired. It is a translucent white and is used, (for light control and decorative purposes), in day lighting of schools, work shops, offices, studios, museums and similar installations.



Huewhite delivers very wide light distribution that is almost uniform down to incidence of 15 degrees. It scatters daylight appreciably even down to an angle of 5 degrees. Brightness is lower than Frosted AKLO 1/4" in a "head-on" view.

Available only in Muralex pattern in the following thicknesses and maximum sizes:

1/4"—maximum size 48" x 132"

5/16"—maximum size 60" x 132"

1/4" wired—maximum size 48" x 132"

Huewhite is also made in Corrugated with the same sizes and specifications as regular Corrugated glass.

SECURIT®**heat-tempered glass**

Securit glass is made by subjecting Patterned Glass to a special process of heat treatment and rapid cooling—creating a highly compressed zone at the outer surface. The tensile strength of Securit, as determined by its modulus of rupture, is from 3 to 5 times greater than non-heat-tempered glass of similar pattern and thickness. When the limit of strength is reached, Securit disintegrates into small, round, relatively smooth particles. (Patterned glass 1/8" thick, wired glass and Huewhite cannot be Securit.) Securit provides greater strength and shock resistance as well as resistance to temperature variation.

uses: Architects and designers are constantly finding new uses for Securit because of its special qualities, such as:

Office doors, partitions • Bath, shower enclosures • Windows liable to breakage • Ceiling sash, sub-skylights • Balustrades • Shelving • Guards subjected to intense heat • Lighting fixtures • Tops for cutting tables • Push plates and kick plates.

dimensions

pattern	light trans. %	thickness, inches	shipping wt./lbs. per sq. ft.	finish and maximum size manufactured •			recommended maximum light area/ft.
				standard	Satinol▲	frosted▲	
Beadex	90.0	7/32	2-3/4	60 x 88	60 x 88 ¹	60 x 88	20
Beadex, matte	82.0	7/32	2-3/4	60 x 88	—	—	20
Diffusex	87.6	7/32	2-3/4	60 x 88	60 x 88	60 x 88	20
Flutex	89.0	7/32	2-3/4	60 x 88	60 x 88	—	20
Flutex, texture	87.2	7/32	2-3/4	60 x 88	—	—	20
Hammered	90.0	7/32	2-3/4	60 x 88	60 x 88	60 x 88	20
	90.0	3/8	5	60 x 88	60 x 88	60 x 88	36
Industrex	88.2	7/32	2-3/4	60 x 88	60 x 88	60 x 88	20
Linex	80.0	7/32	2-3/4	60 x 88	60 x 88	60 x 88	20
Linex, texture	78.5	7/32	2-3/4	60 x 88	—	—	20
Louvrex	90.4	7/32	2-3/4	60 x 88	60 x 88	—	15
Luminex	88.4	7/32	2-3/4	60 x 88	60 x 88	60 x 88	20
Muralex	86.0	7/32	2-3/4	60 x 88	60 x 88	—	20
	86.0	3/8	5	60 x 88	60 x 88	—	36
Pebblex	79.7	7/32	2-3/4	60 x 88	60 x 88 ¹	—	20
Randex	52.3	7/32	2-3/4	60 x 88	60 x 88 ¹	—	15
Reglex	52.3	7/32	2-3/4	60 x 88	60 x 88 ¹	—	20
Ribbed	84.4	7/32	2-3/4	60 x 88	60 x 88	60 x 88	20
	84.4	3/8	5	60 x 88	60 x 88	60 x 88	36
Skytex	78.9	7/32	2-3/4	48 x 88	48 x 88 ¹	48 x 88	15
Velvex	89.0	7/32	2-3/4	60 x 88	60 x 88 ¹	60 x 88	20

▲ Satinol available in one or two sides unless indicated as follows:

¹ One side only on smooth side.
Frosted available on two sides only.

• Type of installation and service expected will determine light size—technical information available.

WIRED

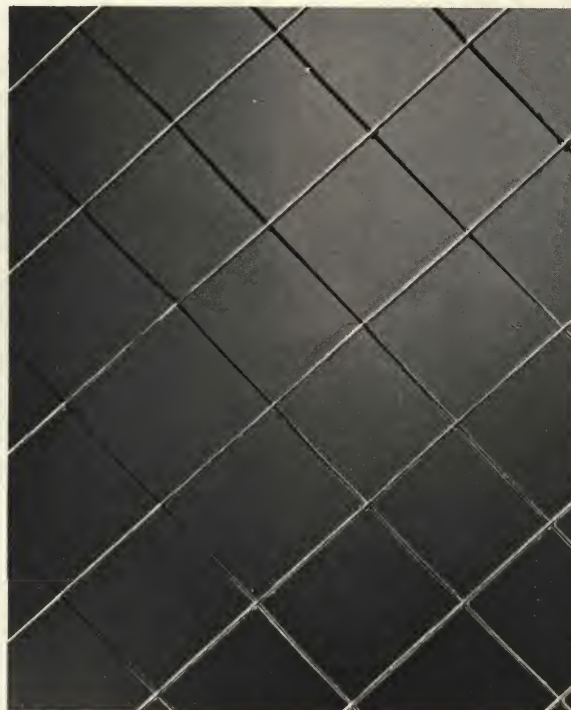
fire-retardant glass

A continuous process wired glass wherein the mesh is chromium dipped to insure both clean wire and firmer adhesion of the glass to the wire. To insure greater strength, wire is embedded as closely as possible to the center of the glass.

approved fire retardant: Wired glass is an approved fire retardant. Rules of the National Board of Fire Underwriters limit the size of wired glass which can be glazed in openings exposed to fire hazards. In no case shall the unsupported area of the glass measure more than 48 inches in either dimension or exceed 720 square inches (5 sq. ft.). Typical maximum sizes which satisfactorily meet that requirement are 15 x 48, 18 x 40, 20 x 36 and 24 x 30 inches. Wired glass used for this purpose must be set in non-flammable materials.

For openings which are not subject to N.B.F.U. rules, maximum satisfaction will be obtained by limiting length of the glass to 60 inches.

Wired glass is also available in AKLO, see pages 6 and 7.



Nuweld® Mesh.

dimensions

pattern	light trans. %	thickness, inches	shipping wt./lbs. per sq. ft.	finish and maximum sizes manufactured ●		
				standard	Satinol▲	frosted▲
Finetex Hex.	83.0	1/4	3 1/2	48 x 144	48 x 144	44 x 132 ⁽¹⁾ 48 x 132 ⁽²⁾
Hammered Hex. or Nuweld	84.0	1/4	3 1/2	48 x 144	48 x 144	44 x 132 ⁽¹⁾ 48 x 132 ⁽²⁾
		3/8	5	48 x 100	48 x 100	44 x 100 ⁽¹⁾ 48 x 100 ⁽²⁾
Industrex Hex.	82.2	1/4	3 1/2	48 x 144	—	44 x 132 ⁽¹⁾ 48 x 132 ⁽²⁾
Luminex Hex.	82.4	1/4	3 1/2	48 x 144	48 x 144	48 x 132 ⁽²⁾
Polished Hex.	84.0	1/4	3 1/2	60 x 144	—	—
Polished Nuweld	84.0	1/4	3 1/2	60 x 144	—	—
Ribbed Hex. or Nuweld	78.4	1/4	3 1/2	48 x 144	48 x 144	44 x 132 ⁽¹⁾ 48 x 132 ⁽²⁾
		3/8	5	48 x 100	48 x 100	44 x 100 ⁽¹⁾ 48 x 100 ⁽²⁾
Skytex Hex.	72.9	1/4	3 1/2	48 x 144	48 x 144 ⁽¹⁾	44 x 132 ⁽¹⁾ 48 x 132 ⁽²⁾
Tobex Hex.	82.0	1/4	3 1/2	48 x 144	—	—

● Type of installation and service expected will determine light size — technical information available.

▲ Available in one or two sides unless indicated as follows:

⁽¹⁾ One side only (Satinol on smooth side, frosted on patterned side).

⁽²⁾ Two sides only.

Hexagonal Mesh.



BEADEX

Beaded, or water drop, shaped linear pattern, simulating beaded screen. For decorative effect in partitions and backdrops. Satinol finish, smooth side only, increases obscurity.

Available standard only.

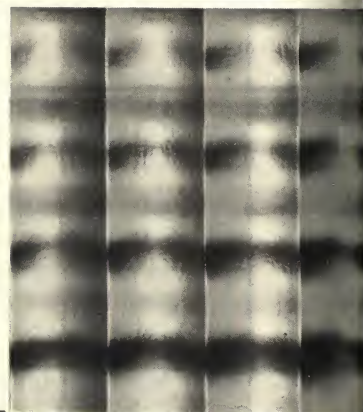


DOUBLEX®

A 1" checkered pattern with flutes on one surface running at right angles to the corrugations on other surface. Very good diffusion and obscurity, especially when Satinol-finished. Sets up striking light patterns.

Available standard only.

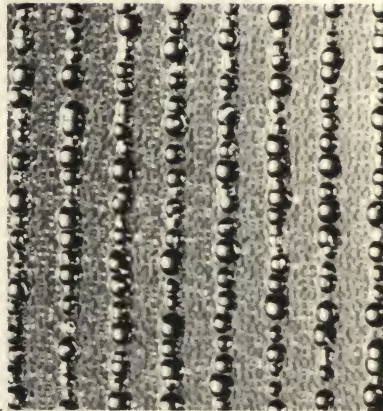
(half-size)



BEADEX, MATTE

Beadex pattern on one surface, matte finish on the other. Gives a sparkling effect, especially in direct light, with very good diffusion.

Available standard only.



FINETEX®

Fine-textured pattern for general glazing — provides medium distribution of light and ease in cleaning.

Available standard, AKLO, Huetex or wired.



CORRUGATED

Conforms to Federal Specification DD-G-451a; deep angle corrugation — 2½" pitch; ⅜" — ¾" thick, overall thickness 1" — ⅞". Muraletex pattern both surfaces, one sharp, other flattened slightly to provide a matte finish cutting surface.

Available standard or Huewhite.

(half-size)



FLOREX®

Graceful floral pattern of unusual brilliance.

Available standard only.



DIFFUSEX®

Small, slightly elevated lenses provide uniform illumination, moderate angle of diffusion. Lenses are spaced to avoid dirt-collecting pockets. Easily cleaned.

Available standard only.

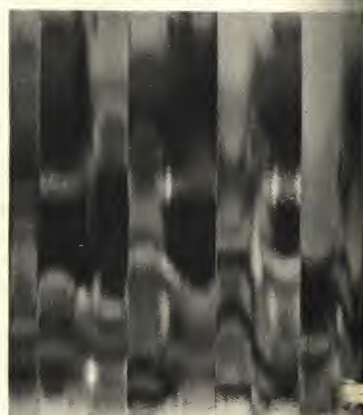


FLUTEX®

1" convex flutes, sharp definitive pattern. Relatively transparent. Satinol finish increases obscurity and diffusion.

Available standard only.

(half-size)



**FLUTEX®
 TEXTURED**

Flutex pattern one surface, shallow over-all texture other surface. Improves obscurity and diffusion over regular Flutex.

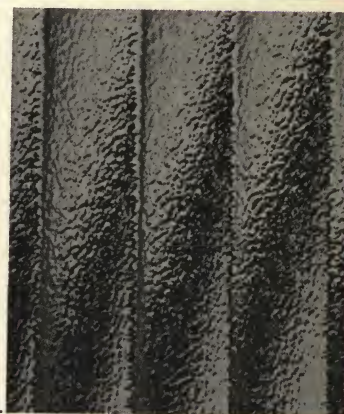
Available standard only.

(half-size)


**LINEX®
 TEXTURED**

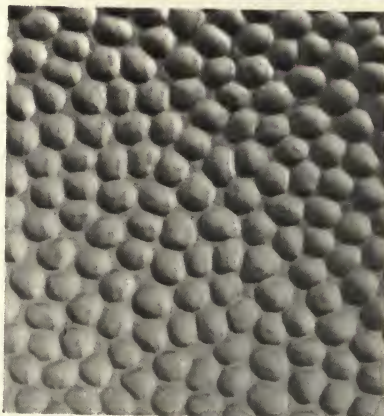
Linex pattern one surface, shallow, over-all texture other surface. Improves obscurity and diffusion over regular Linex.

Available standard only.


HAMMERED

An over-all pattern of raised, adjacent lenses that diffuse light at a moderate angle in all directions.

Available standard, AKLO or wired.


LOUVREX®

Alternate 1" angular planes resemble louvers in Venetian blinds. Relatively transparent. Satinol finish increases obscurity and diffusion.

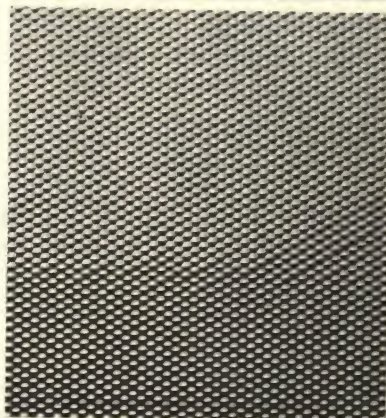
Available standard only.

(half-size)


INDUSTREX®

Tiny lens-shaped figures diffuse light over a wide area. Easily cleaned.

Available standard or wired.


LUMINEX®

Almost transparent, high light transmission but only slight diffusion. Excellent for glazing where maximum light is required.

Available standard or wired.


LINEX®

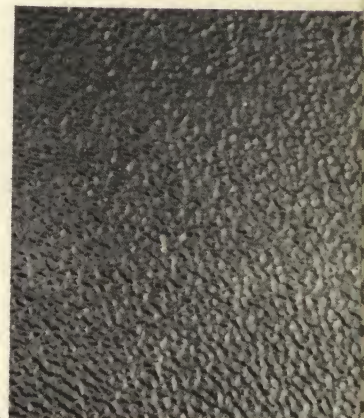
1/2" concave flutes, sharp definite pattern. Relatively transparent in standard rolled fire finish (clear). Satinol finishes increase obscurity and diffusion. Frosted finishes not recommended for decorative uses, partitions, etc.

Available standard only.


MURALEX®

Finely engraved, fairly discrete over-all pattern, medium distribution of light at moderate angle. Rich looking, easy to clean.

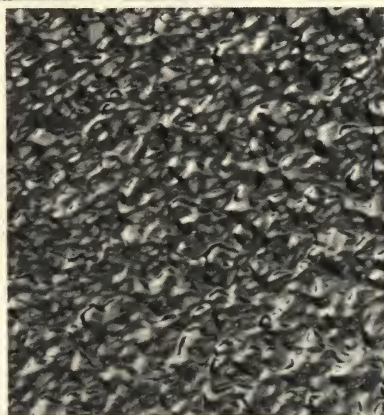
Available standard or Huewhite.



PEBBLEX®

Deeply imprinted, irregular pebble design. Highly obscure. Unusually brilliant appearance. Light diffused at wide angle.

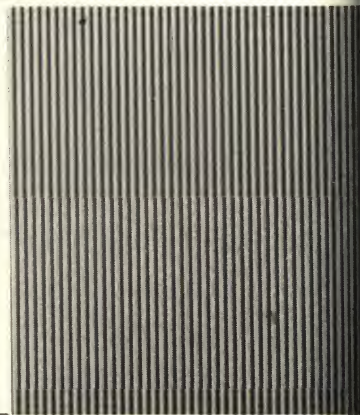
Available standard only.



RIBBED

Approximately twenty-one fine parallel ribs per inch spread the light along one axis, perpendicular to ribs.

Available standard or wired.



POINTEX®

Nearly transparent over-all pattern of tiny bosses of irregular size. A thin, non-diffusing glass.

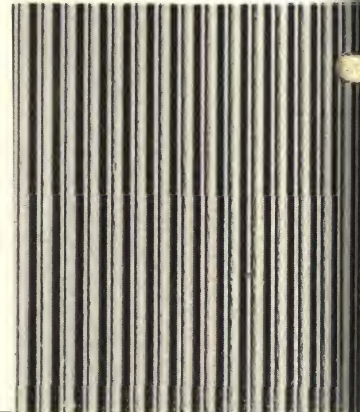
Available standard only.



SKYTEX®

Eight parallel ribs per inch diffuse light perpendicular to direction of ribs and drain off condensation. Usually glazed with ribs vertical.

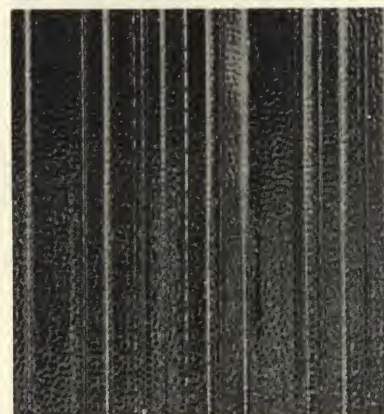
Available standard, AKLO or wired.



RANDEX

Straight parallel, random width and random spaced ribs one surface, matte finish on other surface. Relatively obscure, high brilliance pattern, excellent for decorative and striking effects. Satinol finish increases obscurity and diffusion.

Available standard only.



TOBEX®, WIRED

A figured, wired glass that diffuses light in all directions. One surface plain, other covered with closely spaced, convex, lens-like bosses. Used for skylights in tobacco warehouses, etc., where evenly distributed light is important.

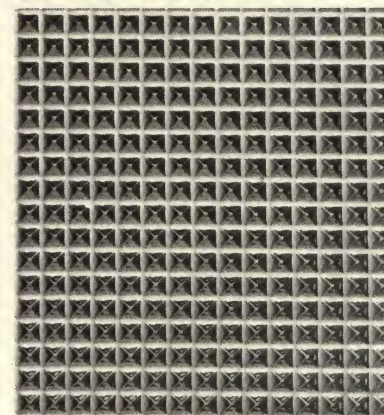
Available wired only.



REGLEX®

Sixty-four pyramid-shape indentations to the square inch diffuse light very well in a cross-shape light pattern. Highly obscure.

Available standard only.



VELVEX®

A shallow pattern glass, only slightly diffusing. Satinol finish adds obscurity and excellent diffusion.

Available standard only.



DESIGNED SATINOL®

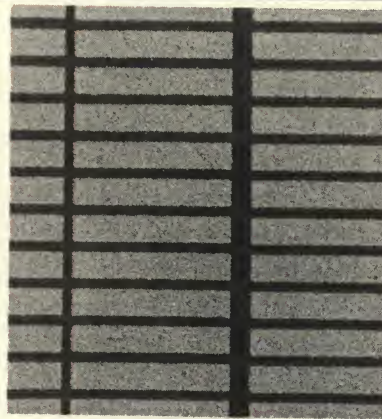
Some standard patterned glasses may be further enhanced by the additional surface treatment of Designed Satinol. On lighter glass patterns the Designed Satinol becomes the major decorative motif. On others the patterns and designs complement each other. When specifying give type, pattern and design by name and number. Thus: "Standard Muralex $\frac{1}{32}$ " Designed Satinol No. 506"

Designed Satinol is available in standard type, $\frac{1}{32}$ " thickness, one side only in the following patterns: (illustrated half size)

pattern	designs available
Flutex	no. 504 no. 507 •
Muralex	all designs
Industrex	all designs
Linex	no. 503 * no. 504 no. 506 * no. 507 • no. 508 *
Louvrex	no. 504 no. 507 •
Luminex	all designs

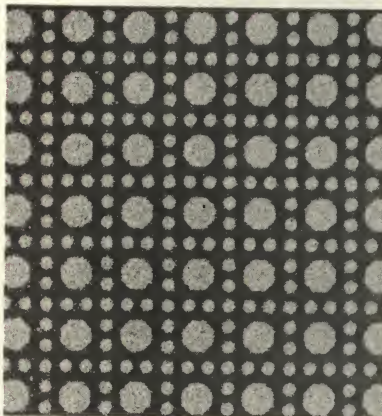
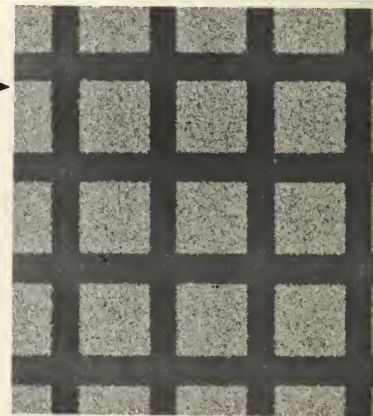
* Large area only.

• Axis of pattern parallel to axis of texture.



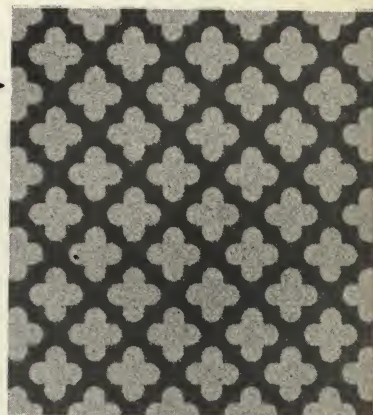
no. 501

no. 502



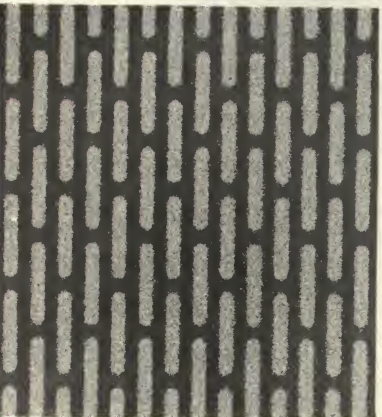
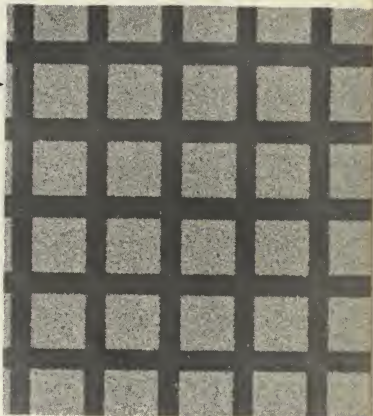
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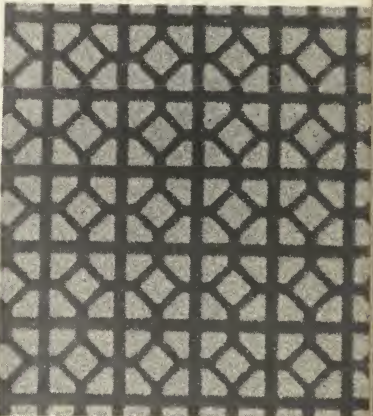
no. 505

no. 506



no. 507

no. 508



SHEET GLASSES

general glazing

American-Saint Gobain is nationally recognized by architects and builders as the quality leader in the production of sheet glass. In its varied forms, sheet glass is probably the most used type of glass, including window glass, both double and single strength, as well as heavy crystal sheet for larger openings. On the following pages are described the various types of sheet glass sold by American-Saint Gobain, including Lustraglass, Lustracrystal, Lustragray, and so on.

when ordering or specifying: All sheet glass which has not been mechanically ground and polished has some inherent wave or distortion, which is usually more prominent in one direction of the glass than it is in the other.

The wave in Lustraglass, Lustracrystal or Lustragray is so slight that it can be disregarded when glazing up to 50 united inches (width plus height). However, in larger sizes, where the best possible appearance is desired, we recommend that the glass be glazed with the wave running parallel to the ground.

To insure that the wave runs in the direction desired, follow these ordering instructions:

When the customer wants the line of distortion to run with the width for any size glass, including under 50 united inches, the width dimension should be listed first. For example: order 48" x 24", instead of 24" x 48".

If the customer wants the wave to run with the width dimensions, as in the case of casement windows where the glass would be glazed vertically rather than horizontally, order 24" x 48" C/O, or Cut-to-Order. This applies to all sizes.

For short form specifications see back cover.

LUSTRAGLASS®

clear, window glass

qualities: Lustraglass transmits both visible light and some ultraviolet. A special separation process for raw materials eliminates impurities in glass such as iron which gives the dull greenish cast found in most sheet glass. Lustraglass has a fire-polished, scratch resistant surface which gives an attractive, sparkling appearance. It is the most distortion-free sheet glass.

uses: Lustraglass is used for glazing windows, doors and storm sashes in all types of buildings for openings up to 5' x 6'8". Lustraglass has additional appeal where optimum daylighting is required.



Heathcote Elementary School, Scarsdale, N. Y.
Architects: Perkins & Will.

dimensions

strength types	maximum sizes united inches = L + W		thickness inches			lbs. per sq. ft.
	manufactured	opening	min.	max.	av.	
single	130	90	.087	.091	.095	1.183
double	140	120	.121	.125	.129	1.625

physical characteristics

strength types	*total visible light transmission	solar radiation transmission▲			
		*total incident ultraviolet	total incident infrared	*total average daylight (visible light range)	total solar radiation
single	92.0%	77.8%	89.8%	91.8%	90.6%
double	91.9%	75.8%	89.6%	91.7%	90.3%

▲ Average radiant energy at normal incidence, with energy distribution equivalent to air mass equal 2.

* The sun's energy consists of 2.77% ultraviolet, 52.42% visible light and 44.80% infrared.

LUSTRACRYSTAL®**clear, heavy sheet glass**

qualities: American Lustracrystal is an improved, high quality, heavy sheet glass available in thicknesses 3/16", 7/32" and 1/4". The features of superior clarity, minimum distortion, and a fire polished, lustrous, scratch resistant surface result in Lustracrystal's preference both for appearance and function.

It is with Lustracrystal that the quality control methods used in the production of all our sheet glasses are supremely important. The glass is checked as it is produced, and on a regular schedule, both with Shadowgraphs (developed and patented by American-Saint Gobain) and by edge-lighting to assure you that the highest quality is maintained.

uses: American Lustracrystal is used to glaze windows, sliding glass doors, and storm sash up to a maximum size of 7 feet by 10 feet. It is also ideal for furniture tops, shelving, jalousies, entrance lobbies, glass stairwalls, etc.

dimensions

strength types	max. size		thickness inches			lbs. per sq. ft.
	*width	length	min.	av.	max.	
3/16"	84"	120"	.187	.193	.199	2.509
7/32"	84"	120"	.212	.218	.224	2.834
1/4"	84"	120"	.240	.248	.256	3.224

*Widths greater than 84" available in limited quantity from Eastern Factory.

physical characteristics

strength types	total visible light transmission	solar radiation transmission▲			
		*total incident ultraviolet	*total incident infrared	*total average daylight (visible light range)	total solar radiation
3/16"	91.8%	68.8%	88.9%	91.2%	89.6%
7/32"	91.7%	66.4%	88.6%	91.1%	89.3%
1/4"	91.6%	63.5%	88.3%	90.9%	89.0%

▲ Average radiant energy at normal incidence with energy distribution equivalent to air mass equal 2.

* The sun's energy consists of 2.77% ultraviolet, 52.42% visible light and 44.80% infrared.



Augusta-Richmond County Municipal Bldg., Augusta, Ga.
Architects: Scroggs & Ewing, and Hulke & Wade.



Ordinary sheet glass.



Lustracrystal.



LUSTRAGRAY®

neutral gray, glare-reducing
sheet glass.

glare is a result of extreme brightness contrasts in the field of vision. Lustragray aids the architect in balancing lighting levels, thereby minimizing eye strain and fatigue. With Lustragray, this is accomplished without sacrificing vision and while providing adequate and controlled natural daylighting for interiors.

heat absorption provides a reduction in transmission of solar energy. No special glazing requirements necessary.

clear glass vision from interior creating a spacious atmosphere conducive to learning and top task efficiency.

exterior opacity sufficient to have a skin wall effect on the building and provide increased privacy.

neutral shade compliments all colors and removes all restrictions on interior decorations.



Versailles Apartments, Denver, Col.
Architects: Huntington, Brelsford and Childress.

dimensions

strength types	maximum size		thickness—_inches			lbs. per sq. ft.
	width	length	minimum	average	maximum	
double	60"	80"	.121	.125	.129	1.625
3/16"	72"	120"	.187	.193	.199	2.509
7/32"	72"	120"	.212	.218	.224	2.834
1/4"	72"	120"	.245	.253	.261	3.289

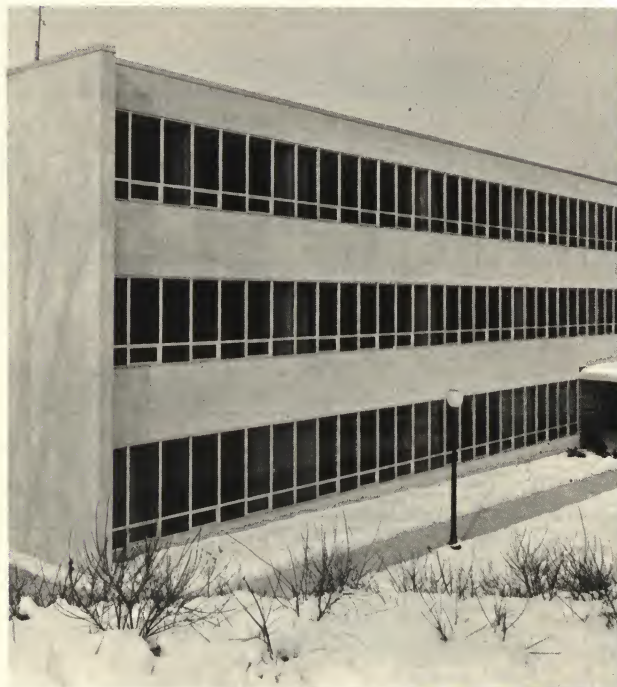
physical characteristics

strength types	total visible light transmission	solar radiation transmission▲			
		*total incident ultraviolet	*total incident infrared	*total average daylight (visible light range)	total solar radiation
double	71.1%	68.4%	79.2%	72.6%	75.5%
3/16"	61.8%	63.7%	73.4%	64.2%	68.9%
7/32"	58.8%	63.0%	71.7%	61.8%	66.3%
1/4"	55.0%	61.0%	68.5%	57.7%	63.1%

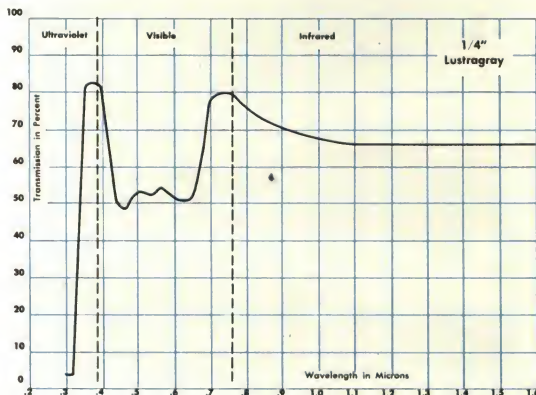
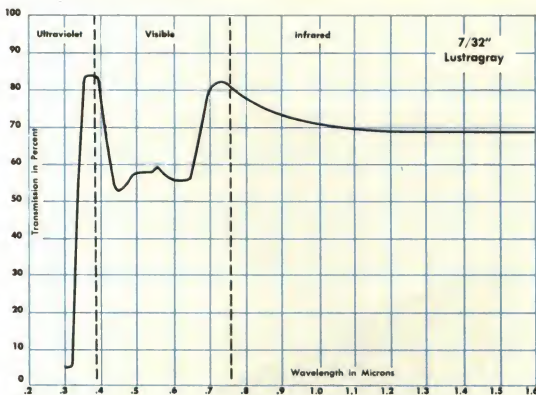
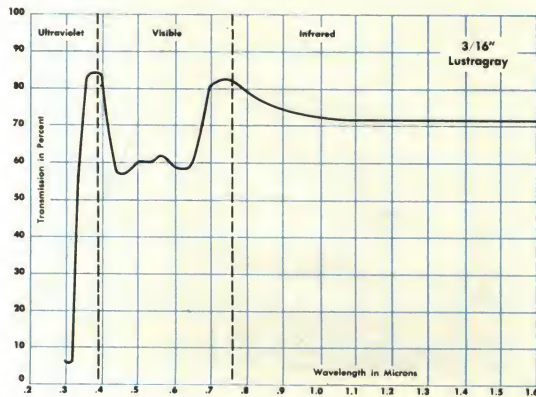
▲ Average radiant energy at normal incidence with energy distribution equivalent to air mass equal 2.

* Sun's energy consists of 2.77% ultraviolet, 52.42% visible light and 44.80% infrared.

Kent State University Library, Kent, Ohio.
Architects: Fulton, Krinsay, & Dela Motte.



radiant energy



SUPRATEST®

clear, laminated safety glass

qualities and uses: Supratest is a laminated safety glass developed to meet the exacting requirements of the automotive industry. Because of its high resistance to fracture and non-shattering characteristics, Supratest has found a definite application wherever glazing specifications require the utmost in safety. Supratest is used in schools, gymnasiums, cafeterias, auditoriums, classrooms facing playground areas, around door entrances, etc. It also has excellent application in hospitals and other types of buildings.

Supratest is laminated with only "A" quality Lustraglass (clear) or Lustragray (gray).



Western Pennsylvania Psychiatric Hospital.
Architects: Raymond M. Marlier.

dimensions

type▲	"nominal" thickness in inches (std. .015" thick plastic sheet)			estimated average shipping weight lbs. per sq. ft.
	min.	max.	av.	
single sheet	3/16	13/64	7/32	2.75
standard sheet	7/32	15/64	1/4	3.0
double sheet	1/4	17/64	9/32	3.33
plate	7/32	1/4	9/32	3.33

▲ Special thicknesses from other combinations will receive individual attention.



GLASS DOORS

The Securit Glass Door is made of $\frac{3}{8}$ " thick heat-tempered Muralex patterned glass. The pattern is on both surfaces which provides a softly diffused light without sacrificing privacy. Since the glass is tempered the door is 3 to 5 times stronger than non-tempered glass of the same thickness. The Securit Door is available in two basic styles: Style M and Style R.

Securit Glass Doors cannot be cut, ground, or drilled after manufacture; therefore, the exact size and necessary drilling should be ordered. There is economy in standard sizes, however non-standard doors are readily available in widths up to 40" and heights up to 88".

The door can be used either right or left hand, since the glass is patterned on both surfaces. Doors can be furnished with Satinol finish on both surfaces, or, for maximum obscurity and privacy, can be ceramic enameled on both surfaces. Doors or sidelights can be supplied with a cut-out for field application of a Peabody Letter Drop #228 with inside hood.

For additional information and details, see Sweet's Arch. File $\frac{16d}{Am}$, or write for bulletin "Securit Glass Doors".



SPANDREL GLASSES

Huetex® is a special Blue Ridge patterned glass made for spandrel construction. The color is obtained by a fused-on coating of sunfast ceramic enamel over which a layer of metallic aluminum is then applied. The aluminum surface acts as a heat reflector as well as giving protection to the ceramic enameled surface.

During manufacturing, the entire sheet of glass is fully tempered to give it three to five times the strength of annealed glass of the same size and thickness.

Blue Ridge Huetex may be used with a wide variety of framing systems and forms of insulation. You can use a choice of metals in rolled or extruded shapes.

In addition to Huetex the Blue Ridge wired glasses have had wide acceptance as a spandrel material. Since these glasses can be cut by the glazier they are especially suitable where exact glazing sizes are difficult to obtain sufficiently far enough in advance to allow for factory fabrication. See page 9 for detailed information on wire glass.



National Lock Co., Rockford, Illinois.
Architects: Ragnar Benson and Associates.

style R

This Securit Door is the latest addition to the line, featuring a narrow aluminum rail at the top and bottom of the glass. All of the hardware required for installation is mounted within the rails, leaving only the floor and top jamb pivots for field installation.

sizes: up to 40" in width and 88" in height.

hardware: supplied in satin finish anodized aluminum only. Surface mounted closer available. Thirteen different hardware functions give a wide selection to meet requirements of various uses. Two types of locks are available, side jamb or threshold. Locks are supplied with door and are mounted in the rail. A push-pull bar of modern design is furnished (with glass drilled for application), but not mounted on the door when shipped.

Note—The style R door is shipped with complete parts, ready for installation.

style M

The style M Securit Door is supplied with special butt hinges, and a metal lock housing to accommodate most 2 1/8" bore, flat face cylindrical locks. No lock is supplied—buyer purchases lock of his choice from his local hardware distributor.

sizes: eight standard sizes, for both standard and heavy duty lock; non-standard sizes up to 40" in width and 88" in height.

hardware: available in either dull chrome (US26D) or dull bronze (US10) finish. Satin finish stainless steel hinges are available on special order. Mounting plates for surface mounted closers can be supplied.

For short form specifications see back cover.

colors: Huetex is available in 12 standard colors. Special colors can be matched, within the range of ceramic enamel manufacturers' limits.

pattern: Finetex pattern is essentially nondirectional. However, for most uniform appearance, all sizes should be ordered for width or height dimension in the same direction.

dimensional data: Thickness —5/16" (.295 to .330).

Maximum size and pattern direction—60" perpendicular to, and 96" parallel to direction of rolling.

Exact dimensions are required on orders because Huetex cannot be cut or ground after manufacture.

framing and glazing: Members must be of sturdy construction and rigid enough to provide uniform support to panel perimeters, and to prevent transmittal of structural loads or stresses to the glass. Design must provide for: adequate expansion joints; means of adjustment during installation; glazing channels; individual panel removal; and weep holes for condensation.

Panels must be glazed with resilient or nonhardening elastic material to provide an adequate cushion between panels and channel walls. Panels should rest upon accepted setting blocks with clearance between all other edges and frames.

For short form specifications see back cover.

For additional information and details, see Sweet's Arch. File $\frac{3e}{Am}$, or Sweet's Industrial File $\frac{3b}{Am}$, or write for Huetex technical bulletin H-1-57.



SPECIAL GLASSES AND PRODUCTS

The role of flat glass as a product design material is an important one. Many everyday products—in the home, in commerce, in industry—use flat glass, and many other products might be improved by the use of glass. From the smallest flashlight to the largest atomic pile, through the gamut of lighting fixtures, appliances, all kinds of transportation—rail, sea, and air, furnaces and ovens, scientific equipment, flat glass has manifold possibilities for design and use. It would be hard to name an hour in our lives when we do not come into contact with and depend on flat glass to make living easier and better.

American-Saint Gobain makes and sells many varieties of flat glasses whose uses are endless—not only architecturally but as components of useful products. Some are indicated here on these two pages and all of them are discussed in more detail in a special bulletin which is yours for the asking (Special Glasses, Sweet's Product Design File No. $\frac{3a}{Am}$). Any of our offices, listed on the back of this bulletin, or your nearest flat glass jobber or dealer will be glad to help with your product design problems, or write to us.

PLATE GLASSES

Plate glass is different from the other types of flat glass in that it is mechanically ground and polished. This operation imparts a fine optically true surface which makes the plate glass useful for glazing large openings and display windows, for mirrors, and more recently, for glass clad buildings.

SUPRATEST® (laminated safety glass)

Supratest consists of a lamination of two lights of "A" quality Lustraglass (clear sheet) or Lustragray (gray sheet) glass with a vinyl plastic inner layer. Supratest does not splinter on impact. When fractured, it holds together in a flexible mass that cushions the blow. Supratest also has a high resistance to fracture at low temperatures. It does not "let go" after long periods of service and will not discolor from constant exposure to sunlight.

Supratest was developed to meet the high safety requirements of the automotive industry and special applications.

TEMEDGE®

Temedge is a special kind of Patterned Glass for жалюзи, counter dividers, shelving, and other specialized uses. It is rolled in strip widths from 3" to 6" with both long edges beautifully fire-polished in the forming process to match the glossy surface of the glass.

Temedge is ready to use as it comes from the rolling machine—no mechanical processing is needed—and the polished edges are always bright and attractive.

Temedge is economical. Rolled to specific width, it saves cutting and handling costs, also expensive edge work. Temedge is highly resistant to edge chipping and impact breakage. This too, adds to its economy in use.

Temedge is strong! This glass has strength against impact better than that of normally annealed glass with ground or penciled edges.

American-Saint Gobain Corporation is now building, near Kingsport, Tennessee, a new plate glass factory. This plant will be finished by 1962. It will use the most recent manufacturing developments in twin grinding and twin polishing.

American-Saint Gobain presently acts as sales agent for several Saint Gobain plate glass plants in Western Europe. Practically all the plate glass sold by American-Saint Gobain is "twin ground", including $\frac{1}{8}$ inch plate. It is recognized among

FEUREX® borosilicate glass

Feurex is a flat glass having great resistance to heat shock. Feurex can be used continuously at temperatures approaching 900°F. The temperatures at which the glass can be used, however, are usually less, in many applications, due to thermal stresses involved.

Recommendations may vary depending upon operational data such as temperature, pressure, environment (on both sides), mountings, gaskets, etc. When used for sight glasses, the temperature differential between the faces usually sets the maximum operating temperature at about 450°F.

RA-GRID® HEATER PLATE

A tempered sheet of patterned glass to which an aluminum coating, approximately .001 inch thick has been fused, together with connectors for electrical wiring.

The coating is applied by spraying hot glass with elemental aluminum, which fuses to the glass and takes the form of a grid, so that electricity must pass through many lineal feet of conductor to complete the circuit. It is then coated with a silicone base enamel, which withstands high operating temperatures, to protect it from abrasion in handling and atmospheric corrosion, as well as providing some electrical insulation.

The heat developed from the current passing through the aluminum resistance is conducted to the glass which in turn radiates. The resulting heat is infrared in nature closely resembling the sun's heat, though without ultraviolet rays.

LUSTRAWHITE®

Lustrawhite is a preferred glass for picture framing.

1. Highest transparency.
2. Minimum distortion—no waviness to detract from the symmetry of the picture.
3. True color transmission due to extreme purity of the glass.
4. Exacting tolerances—8/1000's of an inch or less.

Lustrawhite is available up to 130 united inches and has an average thickness .072.

BULB EDGE GLASS

Bulb Edge Glass has a rounded bulb-shape along one edge which gives it greater strength, making it an ideal glass for shelves, wind deflectors, counter dividers, etc.

thickness	length	width
single and double	12"-44" inclusive	2½"-4" inclusive
3/16" and 7/32"	12"-44" inclusive	3"-16" inclusive

THIN GLASS

Standard Microscopic and Lantern Slide, as the names imply, are used principally in laboratories and for scientific work. Photographic is used by photographic plate manufacturers and in various types of scientific instruments.

product	thickness			max. size
	nominal	decimal	tolerance	
standard microscopic	1/32"	.040	.002"	50 united inches
lantern slide	3/64"	.048	.002"	50 united inches
photographic	1/16"	.061	.004"	70 united inches

architects, builders, and mirror manufacturers as a quality plate . . . for surface parallelism, flatness, and high polish.

Colored plate glass is available from American-Saint Gobain in six standard colors: steel gray, light gray, smoked topaz, sapphire blue, pink and amber. Water-white, as well as heat absorbing plate, are available. Heavy plate in standard 5/16", 7/16", 1/2", 3/4" and 1" thickness round out the line.

As with the many types of sheet and patterned glasses, American-Saint Gobain offers the creative architect, designer or builder a multiplicity of plate glass products, to aid his creative working in the use of glass . . . for beauty . . . for function . . . for light control. Inquiries for special colors, special thicknesses, or for special uses are always welcome. Call any of our offices (listed at the end of the catalog)—or write to us."



SHORT FORM SPECIFICATIONS

PATTERNED GLASSES

All patterned (rolled, obscure) glass specified herein or shown on plans shall be — type, — inch thick, — pattern, — surface finish, — color, and shall meet requirements of Federal Specifications DD-G-451a, made by American-Saint Gobain Corporation, New York, N. Y.

SHEET GLASSES

All sheet glass specified herein or shown on plans shall be — type, — inch thick (strength), — color, made by American-Saint Gobain Corporation, New York, N. Y. and shall meet requirements of Federal Specifications DD-G-451a. All glass shall be ordered and installed by the glazier to minimize the "wave".

GLASS DOORS

All tempered, patterned glass doors specified herein or shown on plans shall be — style, — hardware type, 3/8" thick, — finish (color), Securit door(s) made by American-Saint Gobain Corporation. Each Door must be identified by the name Securit enamelled on the edge of the glass.

SPANDREL GLASSES

All glass specified herein or shown on plans for spandrels or curtain walls shall be Huetex (or wired —) made by American-Saint Gobain Corporation, New York, N. Y.

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